

Rabbit PDE4A Polyclonal Antibody | anti-PDE4A antibody

PDE4A Antibody

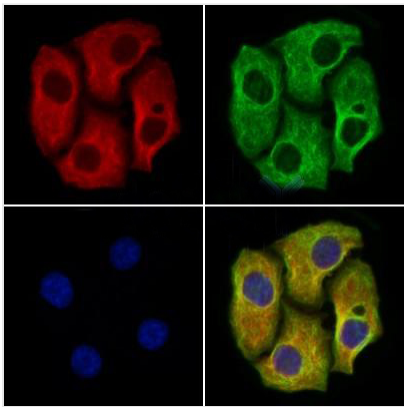
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328934	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

PDE4A; Polyclonal Antibody; PDE4A Antibody; 5"-cyclic phosphodiesterase 4A; cAMP specific phosphodiesterase; cAMP-specific 3"; cAMP-specific 3'; 5'-cyclic phosphodiesterase 4A; DPDE2; dunce like phosphodiesterase E2; PDE 4A; PDE4; PDE46; PDE4A_HUMAN; PDE4A11; Phosphodiesterase 4A; phosphodiesterase 4A cAMP specific; cAMP-specific (dunce; phosphodiesterase E2 dunce homolog; Phosphodiesterase E2 dunce homolog; Drosophila; phosphodiesterase isozyme 4; phosphodiesterase type 4A11; anti-PDE4A antibody

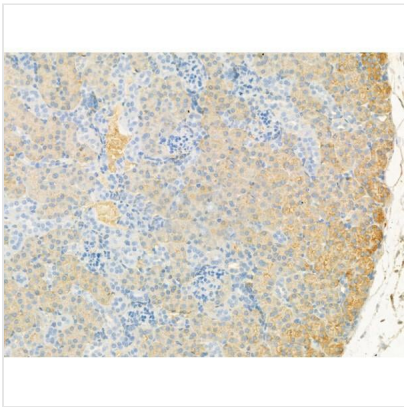
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PDE4A Antibody detects endogenous levels of total PDE4A.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	886
Applicable Applications for anti-PDE4A antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PDE4A, corresponding to a region within C-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



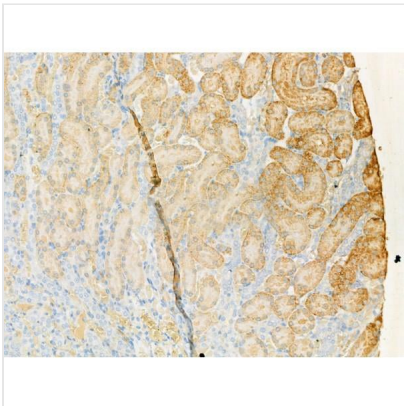
IF (Immunofluorescence)

AAA328934 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328934 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



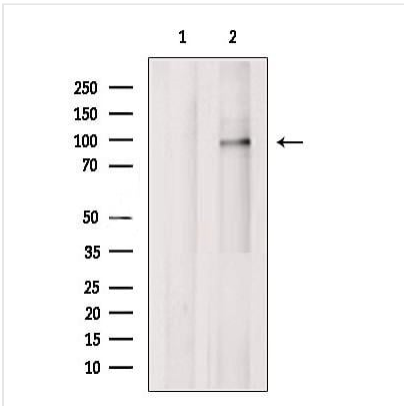
IHC (Immunohistochemistry)

AAA328934 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)

AAA328934 at 1/100 staining Rat kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from HeLa cells, using PDE4A Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PDE4A antibody	Function: Hydrolyzes the second messenger cAMP, which is a key regulator of many important physiological processes. Post Translational Modifications: Phosphorylation by MAPKAPK2 its activation through PKA phosphorylation (By similarity). Phosphorylated at Ser-686 and Ser-688 when expressed in S.frugiperda cells. Isoform 2 and isoform 7 are activated by phosphorylation at Ser-119 and Ser-123 respectively by PKA.Proteolytically cleaved by caspase-3. Subcellular Location: Cytoplasm>Perinuclear region. Cytoplasm>Perinuclear region. Cell projection>Ruffle membrane. Membrane>Peripheral membrane protein. Note: Isoform 4 has propensity for association with membranes.Cytoplasm>Perinuclear region. Cytoplasm. Membrane. Note: Predominantly cytoplasmic. Tissue Specificity: Isoform 1 is widely expressed. Isoform 2 is abundant in liver, stomach, testis, thyroid and adrenal glands. It is also found in placenta, kidney, pancreas, ovary, uterus, skin, monocytes, mast cells, macrophages, as well as in bronchial smooth muscle. Isoform 6 is expressed at high levels in the heart and small intestine. It is also found in the brain, kidney, spleen, colon, salivary gland, ovary and peripheral blood lymphocytes. Isoform 7 is expressed predominantly in skeletal muscle and brain and at lower levels in the testis. Isoform 7 is expressed in the brain. Found in specific neuronal subpopulations in cortex, spinal cord and cerebellum (at protein level). Subunit Structure: Isoform 1 interacts with LYN. Isoform 2 and isoform 6 interact weakly with LYN. Isoform 1, isoform 2 and isoform 6 interact with ARRB2. Similarity: Belongs to the cyclic nucleotide phosphodiesterase family. PDE4 subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116242706
NCBI GeneID	5141
UniProt Accession #	P27815
Molecular Weight	Observed Molecular Weight: (Observed)98kD. Predicted Molecular Weight: (Calculated)98kDa.
NCBI Official Full Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4A
NCBI Official Synonym Full Names	phosphodiesterase 4A
NCBI Official Symbol	PDE4A
NCBI Official Synonym Symbols	PDE4; DPDE2; PDE46
NCBI Protein Information	cAMP-specific 3',5'-cyclic phosphodiesterase 4A
UniProt Protein Name	cAMP-specific 3',5'-cyclic phosphodiesterase 4A
UniProt Gene Name	PDE4A
UniProt Synonym Gene Names	DPDE2
UniProt Entry Name	PDE4A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.